JURISDICTIONAL DELINEATION
of Areas Subject to
the U.S. Army Corps of Engineers and
the California Department of Fish and Game

California Institution for Men
City Of Chino
San Bernardino County, California

Prepared For:

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CALIFORNIA INSTITUTION FOR MEN
CITY OF CHINO
COUNTY OF SAN BERNARDINO, CALIFORNIA

Applicant Name	State of California Department of General Services Real Estate Services Division 1102 Q Street, Suite 6000 Sacramento, CA 95814-6280 Contact: Mr. Chris Christman (916) 323-4435
Agent Name	Sapphos Environmental, Inc. 133 Martin Alley Pasadena, CA 91105 Contact: Ms. Marie Campbell (626) 683-3547
Waterway Name	Cypress Channel
Location	U.S. Geological Survey (USGS) 7.5 minute series Prado Dam topographic quadrangle (Township 2 South, Range 8 West, Santa Ana Del Chino Land Grant Boundary).
Brief Description of Proposed Work	The State of California Department of General Services (DGS), Asset Planning and Enhancement Branch completed the initial phase of a Master Land Use Plan (MLUP), as specified in Chapter 500 of the Statutes of 1998 (Senate Bill 491) for the State owned property currently used for the California Institute for Men (CIM), located within the City of Chino, County of San Bernardino, California. The MLUP is intended to provide a guide for the future utilization of the entire 2,460 acres of the state-owned site. The following report is a delineation of the baseline environmental conditions of Cypress Channel. Cypress Channel is a partially improved open channel storm drain that conveys stormwater flow from the San Gabriel mountains and urban watershed. The channel crosses into the CIM site at its northern boundary and extends south approximately 11,600 linear feet to its southern boundary. The southern most 3,000 linear feet of the channel within the CIM site are un-lined by concrete and maintain a natural bottom. The natural bottom portion of the channel is the subject of this delineation.

1.0 INTRODUCTION

The following report has been prepared by Sapphos Environmental, Inc. in response to a request by the State of California Department of General Services, Asset Planning and Enhancement Branch for a delineation to determine the baseline environmental conditions on a portion of Cypress Channel located on the property operated by the California Institution for Men (CIM), City of Chino, County of San Bernardino, California. Sapphos Environmental, Inc. has reviewed all available maps and data on the CIM site and Cypress Channel, and has delineated the 3,000 linear feet of the natural bottom portion of the channel. On June 12 and 13, 2001, Sapphos Environmental, Inc. (Mr. Paul Seilo, Mr. Blair Baker, Ms. Jennifer Campbell Young, and Ms. Jessica Koteen) conducted a delineation of the natural bottom portion of the Cypress Channel. Based on the review of information and the delineation efforts in the field, Sapphos Environmental, Inc. has prepared the following report to describe the baseline environmental conditions along Cypress Channel and to delineate the extent of areas potentially subject to the jurisdiction of the U.S. Army Corps of Engineer (USACOE) and the California Department of Fish and Game (CDFG).

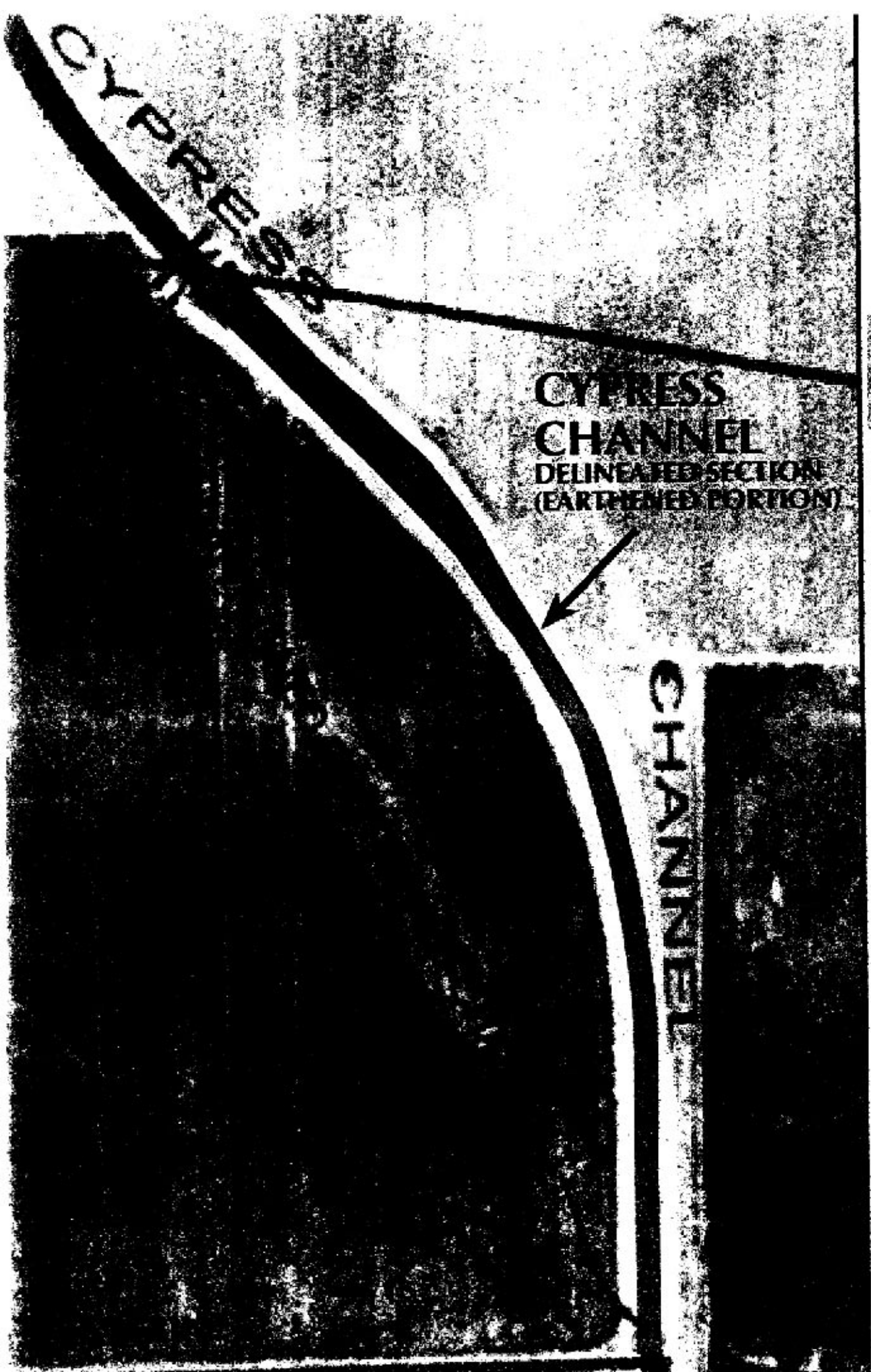
2.0 PROJECT LOCATION

The project is located within the boundaries of CIM, in the City of Chino, County of San Bernardino, California, which is bound to the north by Edison Avenue, to the east by Euclid Avenue, to the south by Kimball Avenue and to the west by Central Avenue. The CIM site is comprised of approximately 2,460 acres, located at 14901 South Central Avenue in the City of Chino, County of San Bernardino, California (Figure 2-1, *Regional Vicinity*, and Figure 2-2, *Local Vicinity*). The CIM site is depicted on the USGS 7.5 minute series Prado Dam topographic quadrangle (Township 2 South, Range 7 and 8 West, Santa Ana Del Chino Land Grant Boundary). Surrounding areas include the primary residential and business district of the City of Chino to the north, Chino Airport to the east, the California Institution for Women and the Prado Basin to the south, and the community of Los Serranos to the west.

3.0 BACKGROUND

3.1 Project Description

The State of California Department of General Services, Asset Planning and Enhancement Branch, with the assistance and cooperation of the California Department of Corrections and the California Youth Authority, completed the initial phase of a Master Land Use Plan (MLUP), as specified in Chapter 500 of the Statutes of 1998 (Senate Bill 491) for the State owned property currently used for the California Institution for Men (CIM), located within the City of Chino, County of San Bernardino, California. The MLUP is intended to provide a guide for the future utilization of the entire 2,460 acres of the state owned site. As displayed in Figure 3.1-1, *Parcel Location Map*, the MLUP divided the entire CIM site into three distinct areas: a northern parcel, CIM central parcel, and a southern parcel. It was concluded that the long-term retention of a broad strip of land consisting of approximately 1,000 acres in the central portion of the existing site, would be sufficient for the ongoing uses by CIM. The MLUP identifies potential recommended uses for approximately 700 acres in the northern parcel of the property. The MLUP identifies approximately 245 acres of the northern parcel for existing and


CYPRESS
CYPRESS
CHANNEL
DELINEATED SECTION
(EARTHENED PORTION)
CHANNEL

1"=300'

PLANIMETER NOTES

7/27/01

1218-001
Delineation of Cypress Channel
PTS, BEB

①	②	③
5.86	5.18	4.99
4.64	5.57	4.70
5.18	4.70	4.70
5.23 avg.	5.15 avg.	4.80 avg.

⇒ 5.23
5.15
4.80
5.06 avg.

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino	Date: 6/12/01
Applicant/Owner: State of California, Department of General Services	County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC.	State: CA
Do Normal Circumstances exist on the site? Yes (No)	Community ID:
Is the site significantly disturbed (Atypical Situation)? (Yes) No	Transect ID: 2
Is the area a potential Problem Area? Yes (No)	Plot ID: 2a
(If needed, explain on reverse.)	

11' West from Center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. rofanus satwa			9. Bucklythr		
2. Mustard ?			10. Spanish Nettle		
3. black willow			11.		
4. Smartweed			12.		
5. ~~[illegible]~~ (1) Conyza clonsii			13.		
6. n grass			14.		
7. black mustard			15.		
8. Tayon –			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 7 (in.)

Depth to Free Water in Pit: ______ (in.)

Depth to Saturated Soil: ______ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

(40.7°)
100' feet S. of road

photo #3 = transect #2
(brick farm)

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Taxonomy (Subgroup): _____

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)	
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No		
Is this Sampling Point Within a Wetland?	Yes	No	(Circle)	

Remarks:

Approved by HQUSACE 3/92

4-3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Corrections Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: SAPPHOS ENVIRONMENTAL, INC.

Date: 6/12/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 4
Plot ID: 4a

3 meters west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Smartweed			9.		
2. Mustard			10.		
3. radish			11.		
4. willow-black			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 8 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
✓ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

photo #5 → transect #4 down
photo #6 → transect #4 across (37.8)

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class: _____

Taxonomy (Subgroup): _____

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)

Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4-3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Corrections Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: SAPPHOS ENVIRONMENTAL, INC.

Date: 6/12/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 4
Plot ID: 4a

3 meters west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Smartweed			9.		
2. Mustard			10.		
3. radish			11.		
4. willow-black			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 8 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
✓ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

photo #5 → transect #4 down
photo #6 → transect #4 across (37.8)

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Taxonomy (Subgroup): _____

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10yr 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Acuic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino	Date: 6/12/01
Applicant/Owner: State of California, Department of General Services	County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC.	State: CA

Do Normal Circumstances exist on the site?	Yes (No)	Community ID:
Is the site significantly disturbed (Atypical Situation)?	(Yes) No	Transect ID: 3
Is the area a potential Problem Area?	Yes (No)	Plot ID: 3a
(If needed, explain on reverse.)		

15 feet west of Center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Mulefat			9. Willow #2 (Arroyo?)		
2. bermuda grass			10. ~~[illegible]~~		
3. Smilax			11.		
4. umbrella grass			12.		
5. rattans			13.		
6. smartweed			14.		
7. Mulefat			15.		
8. Platinus			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

__ Recorded Data (Describe in Remarks):
__ Stream, Lake, or Tide Gauge
__ Aerial Photographs
__ Other
✓ No Recorded Data Available

Field Observations:

Depth of Surface Water: 7 (in.)

Depth to Free Water in Pit: __ (in.)

Depth to Saturated Soil: __ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
__ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
__ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
__ Oxidized Root Channels in Upper 12 Inches
__ Water-Stained Leaves
__ Local Soil Survey Data
__ FAC-Neutral Test
__ Other (Explain in Remarks)

Remarks:

photo #4 ~~[illegible]~~ transect #3 looking down
photo #5 transect #3 looking across

33.7'

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)

Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: JAPPHOR ENVIRONMENTAL, INC.

Date: 6/12/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 6
Plot ID: 6a

35.41 3 meters west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. black willow		
2. mustard		
3. radish		
4. cocklebur		
5. smartweed		
6. bermuda grass		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 12 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

(34.6') photo # 8 transect # 6

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 5/3			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino — Date: 6/12/01
Applicant/Owner: State of California, Department of General Services — County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC. — State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 5
Plot ID: 5a

3 meters West of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. mustard			9.		
2. smartweed			10.		
3. radish			11.		
4. brassica pepper			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 10 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
✓ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

photo #7 → transect #5 → across
(37.4°)

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class:

Taxonomy (Subgroup):

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10yr 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)	(Circle)
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino — Date: 6/12/01
Applicant/Owner: State of California, Department of General Services — County: San Bernardino
Investigator: Sapphos Environmental, Inc. — State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: B
Plot ID: B4

34.4 12 Meters west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. [redacted] acacia			9.		
2. sorrance			10.		
3. Mustard			11.		
4. radium			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 14 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Photo #10 + transect # 8

30.6

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class:

Taxonomy (Subgroup):

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Corrections / Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: SAPPHOS ENVIRONMENTAL, INC.

Date: 6/13/01 (12)
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 7
Plot ID: 7a

34.7
4 meters West of Center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. box elder			9.		
2. sweetgum			10.		
3. radish			11.		
4. Mustard			12.		
5. artemesia douglasiana			13.		
6.			14.		
7			15.		
8			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 12 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
√ Inundated
___ Saturated in Upper 12 Inches
√ Water Marks
√ Drift Lines
___ Sediment Deposits
√ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

35.3°

photo #9 - transect #7

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10yr 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 128-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: SAPPHOS ENVIRONMENTAL, INC.
Date: 6/12/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 10
Plot ID: 10a

11.87 W

5.93 m west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Mustard			9.		
2. Spearmint			10.		
3. Mallow (2)			11.		
4. Radish			12.		
5. Cattails			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 24 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
✓ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

photo #12

41.1°

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Taxonomy (Subgroup): _____

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino	Date: 6/12/01
Applicant/Owner: State of California, Department of General Services	County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC.	State: CA
Do Normal Circumstances exist on the site? Yes (No)	Community ID:
Is the site significantly disturbed (Atypical Situation)? (Yes) No	Transect ID: 9
Is the area a potential Problem Area? Yes (No)	Plot ID: 9a
(If needed, explain on reverse.)	

15 meters west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Artemisia douglasiana			9.		
2. Mustard			10.		
3. Smartweed			11.		
4. Box alder			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). ______

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 14 (in.)

Depth to Free Water in Pit: ______ (in.)

Depth to Saturated Soil: ______ (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ✓ Inundated
- ___ Saturated in Upper 12 Inches
- ✓ Water Marks
- ✓ Drift Lines
- ___ Sediment Deposits
- ✓ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

(427) photo #11 transect #9

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10yr 3/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino	Date: 6/13/01
Applicant/Owner: State of California, Department of General Services	County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC.	State: CA
Do Normal Circumstances exist on the site? Yes (No)	Community ID:
Is the site significantly disturbed (Atypical Situation)? (Yes) No	Transect ID: 12
Is the area a potential Problem Area? Yes (No)	Plot ID: 12a
(If needed, explain on reverse.)	

12.96   6.48 meters of ? center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Mustard			9.		
2. ridwin			10.		
3. smartweed			11.		
4. arroyo willow			12.		
5. heliantnus			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
  ___ Stream, Lake, or Tide Gauge
  ___ Aerial Photographs
  ___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 10 (in.)

Depth to Free Water in Pit: ______ (in.)

Depth to Saturated Soil: ______ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
  ✓ Inundated
  ___ Saturated in Upper 12 Inches
  ✓ Water Marks
  ✓ Drift Lines
  ___ Sediment Deposits
  ✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
  ___ Oxidized Root Channels in Upper 12 Inches
  ___ Water-Stained Leaves
  ___ Local Soil Survey Data
  ___ FAC-Neutral Test
  ___ Other (Explain in Remarks)

Remarks:

(50.2) Photo # 14

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class:

Taxonomy (Subgroup):

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)	(Circle)
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino — Date: 6/13/01 (12)
Applicant/Owner: State of California, Department of General Services — County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC. — State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 11
Plot ID: 11a

12.80 6.40 Meets Wetland Criteria

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Smartweed			9.		
2. Mustard			10.		
3. radish			11.		
4. heliantheus			12.		
5. Geranium?			13.		
6. Pigweed			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 20 (in.)
Depth to Free Water in Pit: ___ (in.)
Depth to Saturated Soil: ___ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Photo #13
43.7'

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)	(Circle)
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 (218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: Sapphos Environmental, Inc.

Date: 6/12/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: T6a
Plot ID: T6aw

11.78 5.89 m. east of

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Mustard			9.		
2. Smartweed			10.		
3. Radish			11.		
4. Ryegrass			12.		
5. Crabgrass			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 14 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Photo #18
(60.3')

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class:

Taxonomy (Subgroup):

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino	Date: 6/12/01
Applicant/Owner: State of California, Department of General Services	County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC.	State: CA
Do Normal Circumstances exist on the site? ~~Yes~~ (No) Is the site significantly disturbed (Atypical Situation)? (Yes) ~~No~~ Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Transect ID: 15 Plot ID: 15a

~~[illegible]~~ 10.33

5.4 mi. west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. smartweed			9.		
2. mustard			10.		
3. helianthus			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
  ___ Stream, Lake, or Tide Gauge
  ___ Aerial Photographs
  ___ Other
✓ No Recorded Data Available

Field Observations:

Depth of Surface Water: 12 (in.)

Depth to Free Water in Pit: ______ (in.)

Depth to Saturated Soil: ______ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
✓ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

photo #17

(553)

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
		10YR 3/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: SAPPHOS ENVIRONMENTAL, INC.
Date: 6/12/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 1B
Plot ID: 1Bu

11.19 5.64 meter west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. bromus			9.		
2. Mustard			10.		
3. radish			11.		
4. black mallow			12.		
5. Snapweed			13.		
6. Mallow			14		
7			15.		
8			16		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 7 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
✓ Saturated in Upper 12 Inches
___ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Photo #20.
64.5"

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class: _____

Taxonomy (Subgroup): _____

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0/8		10yr 2/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-601

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino — Date: 6/12/01
Applicant/Owner: State of California, Department of General Services — County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC. — State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 12
Plot ID: 12a

11.48 [redacted] west of center 5.74 m

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. helianthus			9.		
2. ambrosia			10.		
3. sisymbrium			11.		
4. mustard			12.		
5. brassica			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 14 (in.)
Depth to Free Water in Pit: ___ (in.)
Depth to Saturated Soil: ___ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
✓ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

photo #19

65.2

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class:

Field Observations

Taxonomy (Subgroup):

Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-13		10YR 3/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)

Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

13

Project/Site: State of California Correctional Property in Chino | Date: 6/13/01
Applicant/Owner: State of California, Department of General Services | County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC. | State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 20
Plot ID: 20a

15.34m 7.67m. west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Mustard			9.		
2. Spearmint			10.		
3. black willow			11.		
4. radish			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 10 (in.)
Depth to Free Water in Pit: _____ (in.)
Depth to Saturated Soil: _____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
✓ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
✓ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Photo #22
69.9°

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 2/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)	(Circle)
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: Sapphos Environmental, Inc.

Date: 6/12/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 19
Plot ID: 19a

12.19 6.10 meter west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Nuttalls			9.		
2. Black willow			10.		
3. brome			11.		
4. mustard			12.		
5. radish			13.		
6. Smartweed			14.		
7. mallow			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 8 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Photo #21
68°

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class:

Field Observations

Taxonomy (Subgroup):

Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-13		10YR 2/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)

Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino Applicant/Owner: State of California, Department of General Services Investigator: SAPPHIRE ENVIRONMENTAL, INC.	Date: 6/13/01 County: San Bernardino State: CA
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? (Yes) No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Transect ID: 22 Plot ID: 22a

8.08M west of Center/Delineation
9.08 M [illegible]

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. cattails			9.		
2. smartweed			10.		
3. mustard			11.		
4. black willow			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: 18 (in.) Depth to Free Water in Pit: ___ (in.) Depth to Saturated Soil: ___ (in.)	Wetland Hydrology Indicators: Primary Indicators: ✓ Inundated ___ Saturated in Upper 12 Inches ✓ Water Marks ✓ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12 Inches ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)

Remarks:

Photo #24
75.4°

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class:

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup):

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-13		10YR 3/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino	Date: 6/13/01
Applicant/Owner: State of California, Department of General Services	County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC.	State: CA
Do Normal Circumstances exist on the site? Yes (No)	Community ID:
Is the site significantly disturbed (Atypical Situation)? (Yes) No	Transect ID: 21
Is the area a potential Problem Area? Yes (No)	Plot ID: 21a
(If needed, explain on reverse.)	

12.23 m

7.1am west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. tree of Heaven			9.		
2. radish			10.		
3. Milkweed			11.		
4. mustard			12.		
5. bermuda grass			13.		
6. black willow			14.		
7. bromus			15.		
8. umbrella grass			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 30 (in.)

Depth to Free Water in Pit: ______ (in.)

Depth to Saturated Soil: ______ (in.)

Wetland Hydrology Indicators:

Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
✓ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

photo #23

139°

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-10		10YR 3/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

VB

Project/Site: State of California Correctional Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: SAPPHOS ENVIRONMENTAL, INC.

Date: 6/[illegible]/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID: 2
Transect ID: 24
Plot ID: 24a

16.48 not 8.24 west of center
Del. 7.24 west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Mustard			9.		
2. Sweetclover			10.		
3. Arroyo willow			11.		
4. radish			12.		
5. unknown			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 24 (in.)
Depth to Free Water in Pit: _____ (in.)
Depth to Saturated Soil: _____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Photo #1 in reverse
74.2

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class: _____

Taxonomy (Subgroup): _____

Field Observations Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/2			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)

Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Corrections Property in Chino	Date: 6/13/01
Applicant/Owner: State of California, Department of General Services	County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC.	State: CA
Do Normal Circumstances exist on the site? Yes (No)	Community ID:
Is the site significantly disturbed (Atypical Situation)? (Yes) No	Transect ID: 23
Is the area a potential Problem Area? Yes (No)	Plot ID: 23
(If needed, explain on reverse.)	

16.06   48.08 hole west of center
5.08 Delineation west of center

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Amaranthus			9.		
2. Polygonum (?)			10.		
3. mustard			11.		
4. cattails			12.		
5. Smartweed			13.		
6. radish			14.		
7. bromus			15.		
8. Mallow			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
  ___ Stream, Lake, or Tide Gauge
  ___ Aerial Photographs
  ___ Other
✓ No Recorded Data Available

Field Observations:

Depth of Surface Water: 24 (in.)

Depth to Free Water in Pit: ______ (in.)

Depth to Saturated Soil: ______ (in.)

Wetland Hydrology Indicators:

Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
✓ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

73.1°   Photo #25 #26

SOILS

Map Unit Name (Series and Phase): Prado Dam

Drainage Class:

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup):

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4		10YR 5/1			
4-18		10YR 5/4	5% 10YR 4/6		

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ✓ Gleyed or Low-Chroma Colors Chart Like gley 4/10y
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

Is this Sampling Point Within a Wetland? (Circle) Yes No

Remarks:

Approved by HQUSACE 3/92

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Corrections / Property in Chino — Date: 6/13/01
Applicant/Owner: State of California, Department of General Services — County: San Bernardino
Investigator: SAPPHOS ENVIRONMENTAL, INC. — State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 26
Plot ID: 26a

15.24 9.12 west of center-hole
8.12 west → delineation

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Smartweed			9.		
2. mustard			10.		
3. arroyo ~~willow~~ willow			11.		
4. Washingtonia robusta			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 30 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
- √ Inundated
- √ Saturated in Upper 12 Inches
- √ Water Marks
- √ Drift Lines
- ___ Sediment Deposits
- ___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

Photo #3 Photo #4
72°

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

13

Project/Site: State of California Correctional Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: SAPPHOS ENVIRONMENTAL, INC.

Date: 6/12/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 25
Plot ID: 25a

19.71 9.36 m. West of Center
7.36 Reference

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Mustard			9.		
2. Vaccinia			10.		
3. Mustard			11.		
4. Mexican			12.		
5. Prosopis Rosmarin			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water: 04 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Photo #2
(73.9°)

4.3 1218-001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Corrections / Property in Chino
Applicant/Owner: State of California, Department of General Services
Investigator: SAPPHOS ENVIRONMENTAL, INC.

Date: 6/12/01
County: San Bernardino
State: CA

Do Normal Circumstances exist on the site? Yes (No)
Is the site significantly disturbed (Atypical Situation)? (Yes) No
Is the area a potential Problem Area? Yes (No)
(If needed, explain on reverse.)

Community ID:
Transect ID: 28 | 39 feet North of transect
Plot ID: 28a

16.63

8.31 M west of center-hole
7.31 M west of center-debris

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. umbella grass			9.		
2. mallow			10.		
3. artemisia douglasiana			11.		
4. tree tobacco			12.		
5. mustard			13.		
6. radish			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 36 (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
√ Inundated
___ Saturated in Upper 12 Inches
√ Water Marks
√ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

photo #5 across
photo #6 70.7°
-south

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class:

Taxonomy (Subgroup):

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	

(Circle)
Is this Sampling Point Within a Wetland? Yes No

Remarks:

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: State of California Correctional Property in Chino	Date: 6/13/01
Applicant/Owner: State of California, Department of General Services	County: San Bernadino
Investigator: SAPPHOS ENVIRONMENTAL, INC.	State: CA
Do Normal Circumstances exist on the site? Yes (No)	Community ID:
Is the site significantly disturbed (Atypical Situation)? (Yes) No	Transect ID: 27
Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Plot ID: 27a

17.63 — ~~[illegible]~~ - WRO - 14.63
~~[illegible]~~ delineation - 13.63

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Washingtonia robusta			9.		
2. Mutha			10.		
3. radish			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
  ___ Stream, Lake, or Tide Gauge
  ___ Aerial Photographs
  ___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water: 30 (in.)

Depth to Free Water in Pit: ______ (in.)

Depth to Saturated Soil: ______ (in.)

Wetland Hydrology Indicators:
Primary Indicators:
✓ Inundated
___ Saturated in Upper 12 Inches
✓ Water Marks
✓ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

(717) tracking

SOILS

Map Unit Name
(Series and Phase): Prado Dam

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
		10YR 3/1			

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content in Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(Circle)	(Circle)
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No	Is this Sampling Point Within a Wetland?	Yes No

Remarks:

Approved by HQUSACE 3/92

future recreation facilities, including a proposed golf course, subject to resolution of outstanding issues. In addition, approximately 370 acres of potential residential land has been identified as surplus; and approximately 10 acres were retained for the water treatment plant and future improvements. Similarly, 105 acres were allocated for future improvements in support of the Youth Correctional Facility. The southern parcel of the site, which contains approximately 750 acres, is designated as a "Study Area" in the MLUP. Cypress Channel flows through the entire CIM site, from the northern to the southern boundary. The delineated portion of the channel is entirely within the southern parcel of the site or the "Study Area."

3.2 Site Description

The entire 2,460 acre CIM site is located in the Santa Ana River watershed. South of the site, Prado Dam has been built across the Santa Ana River to form the Prado Flood Control Basin. The CIM site drains north to south.

Constructed in the 1970's, Cypress Channel is a partially improved open channel storm drain that conveys stormwater flow from the San Gabriel mountains and urban watershed (State of California 1997). The channel is fed by the Magnolia and Sultana-Cypress storm water drains. As depicted on the USGS 7.5 minute series Ontario topographic quadrangle (Township 2 South, Range 7 West), Cypress Channel begins south of the Pomona Freeway (Highway 60) as two separate channels. The eastern most channel begins at the southwest corner of the Sultana Avenue/Walnat Avenue intersection and heads southwest. The western channel starts at the southeast corner of the San Antonia Avenue/Walnut Avenue intersection and heads due south until it intersects with the eastern channel, less than .25 mile north of Riverside Drive. The channel then continues to head southwest until just before it intersects with Cypress Avenue. Cypress Channel then turns due south and runs adjacent to the eastern side of Cypress Avenue.

Cypress Channel crosses into the CIM site at its northern boundary (Edison Avenue) and extends south approximately 11,600 linear feet to its southern boundary (Kimball Avenue). The northern most 8,600 linear feet of the channel, beginning at Edison Avenue and extending south, is lined on the bottom and both banks with concrete and supports no vegetation. The remaining 3,000 linear feet of the channel which is the subject of this report, has a natural bottom with retaining structures on both banks (Figure 3.2-1, *Retaining Structures and Vegetation*). This natural bottom portion of the channel supports native riparian vegetation which has been invaded by non-native species (Figure 3.2-1). The natural bottom portion of the channel ends approximately 60 linear feet before the Kimball Avenue bridge. The remainder of the channel, extending under the bridge, is lined with concrete. Dirt roadways are immediately adjacent to both banks of the natural bottom portion of the channel (Figure 3.2-2, *Dirt Roadways*) The roadways extend down the entire 3,000 linear feet of the delineated section of the channel. Agricultural land is immediately adjacent to the dirt roadways on the eastern and western side of the delineated section of the channel.

Cypress Channel follows the approximate alignment of the natural drainage, which is shown on nineteenth-century maps of the Chino area. To the north and south of the CIM site, Cypress Channel is managed by the San Bernardino County Flood Control District. Although, the Flood Control District currently does not have an easement across the CIM site, the State of California has notified

the Flood Control District that it will grant an easement in surplus land area for maintenance purposes after improvements to the channel have been completed.

3.3 Regulatory Framework

Those activities that extend into wetlands or "waters of the United States" are subject to the authority of the USACOE under Section 404 of the Clean Water Act. In addition, the USACOE has expanded its permitting authority to projects that impact 0.1 acre or more of wetlands or "waters of the United States." Activities that require a Federal license or permit are also subject to certification by the RWQCB, and activities in stream courses are subject to the jurisdiction of the CDFG pursuant to Section 1600 of the State Fish and Game Code.

Section 404 of the Clean Water Act

Section 404 of the Clean Water Act, which is administered by the USACOE, regulates the discharge of dredged and fill material into "waters of the United States." The USACOE has established a series of Nationwide Permits that authorize certain activities in "waters of the United States" provided that the proposed activity can demonstrate compliance with standard conditions. Normally, the USACOE requires an individual permit for an activity that will affect an area in excess of 0.5 acres of "waters of the United States." The USACOE also has discretionary authority to require an Environmental Impact Statement for projects that result in impacts to an area between 0.1 and 0.5 acres. Projects that result in impacts of less than 0.5 acres of "waters of the United States" can normally be conducted pursuant to Nationwide Permit No. 26 if consistent with the standard permit conditions.

Section 401 of the Clean Water Act

Water quality certification is required by the State Water Resources Control Board (State Board) for any activity that requires a Federal license or permit (such as a Nationwide Permit or individual permit pursuant to the Federal Clean Water Act) and that may result in a discharge to a body of water.

Section 1603 of the State Fish and Game Code

All diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake in California that support fish or wildlife resources are subject to the regulatory authority of the CDFG pursuant to Sections 1600 through 1603 of the State Fish and Game Code. Specifically, Section 1603 of the Code governs private party individuals. Under State Code, a stream is defined as a body of water that flows at least periodically, or intermittently, through a bed or channel having banks and supporting fish or other aquatic life; included are watercourses with surface or subsurface flows that support or have supported riparian vegetation. The CDFG's jurisdictions within altered or artificial waterways is based on the value of those waterways to fish and wildlife. The CDFG must be contacted for a streambed alteration agreement for any project that may impact a stream bed or wetland. The CDFG has maintained a "no net loss" policy regarding potential impact, and has required replacement of lost habitats on at least an acre-for-acre basis.

4.0 JURISDICTIONAL DELINEATION METHODS

The purpose of this survey was to delineate the limits of USACOE jurisdiction pursuant to Section 404 of the Clean Water Act and CDFG jurisdiction pursuant to Section 1600 of the State Fish and Game Code within the natural bottom portion of Cypress Channel. This delineation was conducted as part of a preliminary assessment being conducted to determine the baseline environmental conditions of the entire 2,460 acre CIM site. The four-person delineation team included Mr. Blair Baker, Ms. Jennifer Campbell Young, Mr. Paul Seilo, and Ms. Jessica Koteen. Mr. Blair Baker and Ms. Jennifer Campbell Young have both successfully completed the Field Delineation courses offered through the Wetlands Institute.

Potential sources of information, including the USGS 7.5 minute series Prado Dam topographic quadrangle, were reviewed prior to conducting field work. During this review, Cypress Channel and one small pond were found mapped on the subject property. Cypress Channel is the only "blue-line" stream mapped on the CIM site. The pond is located north of Kimball Avenue and west of Cypress Channel in the southern parcel. It is a settling pond for the entire CIM site.

National Wetland Inventory (NWI) maps were consulted for the area using the Interactive Mapping tool provided by the U.S. Fish and Wildlife Service. Wetlands on the NWI maps are classified in accordance with Cowdin, et al. (1979). Not all areas on NWI maps are wetlands under USACOE jurisdiction. There are no wetlands mapped on the subject property according to the NWI. The only open water feature on the CIM site, as designated on the NWI map, is Cypress Channel. Other open water features in the vicinity of the CIM site include: Cucamonga Creek Flood Control Channel to the east; Prado Lake to the south; and San Antonia Channel, the Lower Los Serranos Channel, and Lake Los Serranos to the west.

Geologic Maps of the San Bernardino Quadrangle were consulted for the project site. The CIM site lies to the west of Puente Hills, and is comprised of younger (Holocene) slightly dissected fan deposits of sand and gravel (Department of Conservation 1996).

The County of San Bernardino Flood Control was contacted for stream gauge data. The nearest stream gauge is located approximately two miles south of the CIM property boundary on Chino Creek within the Prado Flood Control Basin (pers. comm., Randy Forbey).

The jurisdictional delineation was undertaken on June 12 and 13, 2001. The delineation team recorded data on routine wetland determination data forms (Appendix A, *Data Forms—Routine Wetland Determination*) and confirmed measurements on 100-scale topographic maps. Field observations were recorded for each transect including location, characteristic vegetation, evidence of a streambed or bank (or ordinary high water mark), and substrate. Transects were initiated on the channel proximate to the end of the concrete-lined portion of the channel, approximately 8,600 linear feet south of Edison Avenue. Transect #1 was established across the channel 15 feet south of the of the end of the concrete-lined portion. Subsequent transects were established at approximately 100 foot intervals. A total of 28 transects (oriented east to west; perpendicular to the watercourse) were established along Cypress Channel (Appendix B, *Transect Photos*). Transect locations are shown on Figure 4-1, *Jurisdictional Delineation Transect Locations*.

Soil pits were dug at each transect, soil horizons were characterized, and soil textures were analyzed; this process was repeated at each site. Evidence of disturbance or previous alterations to the stream were also noted. Retaining walls were present along portions of the bank on both sides of the channel and were heavily eroded and in need of repair. There was evidence of disturbance by fill of material not indigenous to the site between the concrete lined portion of the channel and transect #1.

The determination of areas subject to the jurisdiction of the USACOE and CDFG was based on an analysis of the vegetation, hydrology, and soils in the project area; the USACOE typically exerts jurisdiction over areas that possess the three indicators for wetlands–hydrology, soils, and vegetation--or that exhibit signs of supporting regular water flow (typically during a 20-year storm event). The characterization of the existing vegetation in the parcel was conducted using the National Range of Indicators defined by the U.S. Fish and Wildlife Service and provided in the *National List of Plant Species that Occur in Wetlands: California (Region 0)*. Soils on the project site were determined through field analysis for features characteristic of soils subject to anoxic conditions. Hydrology was determined using topographic maps and indicators as outlined in the *Field Guide for Wetland Delineation*. The CDFG exerts jurisdiction over the bed, bank, and channel of a lake, river, or stream and any associated riparian vegetation.

Sections of the stream where "normal environmental conditions" exist were examined using the comprehensive method described by the *Field Guide for Wetland Delineation*. Sections of the stream that appeared to be altered or disturbed were also analyzed using the methods described therein.

5.0 JURISDICTIONAL DELINEATION RESULTS

The portion of the blue-line stream on the project site is approximately 11,600 feet long. There are no jurisdictional wetlands present within the area delineated (approximately 3,000 linear feet). As a result of surveys to determine the extent of jurisdictional areas on-site, it was found that the existing conditions do not support the vegetation, soil, and hydrology necessary to be classified as wetlands pursuant to Section 404 of the Clean Water Act. Sampling of soil removed from pits dug at the transect locations showed that wetland soils are not present within the area delineated along the channel. Areas subject to ordinary flows that scour and remove dropped leaves are present, and areas along the stream show signs of water flow or of an ordinary high water mark (OHWM). There is wetland vegetation present within the streambed.

5.1 Waters of the United States

As a result of the surveys conducted on June 12 and 13, 2001 approximately 5.06 acres of the property were observed to support "waters of the United States." The delineated portion of the Cypress Channel was observed to contain running water for a linear distance of approximately 3,000 linear feet in the south-central portion of the property. The channel is considered to have an average width of six feet along the length of area supporting a flow of water. The channel is supplied by a seasonal flow from rains and maintains a perennial flow supplied by nuisance irrigation water. The

area subject to the jurisdiction of the USACOE as "waters of the United States" is shown in Figure 5-1, *Agency Jurisdiction*.

During the delineation survey, there were indications of erosion, sediment deposits, and water marks in the area. In addition, racking of debris against fixed points in the channel was observed such as would be expected if regular flows were transporting material down the channel. Vegetation in the area subject to the jurisdiction of the USACOE consists of smartweed (*Polygonum sp.*), Arroyo willow (*Salix lasiolepis*), black willow (*Salix gooddingii),* and cattails (*Typha latifolia*) and represent the dominant vegetative cover. There are no mapped hydric soils on the property. No evidence of hydric soils was observed in the soil test pits. Vegetation adjacent to the area subject to the jurisdiction of the USACOE has been cleared for agricultural uses or for access roads.

5.2 Streambed

As a result of the surveys conducted on June 12 and 13, 2001 approximately 5.06 acres of the property were observed to support characteristics which could be considered to fall within the jurisdiction of the CDFG. As described in Section 4.0, a stream is described in Title 14, California Code of Regulations, Section 1.72 as:

> "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation."

The courts, in Rutherford v. State of California, defined a stream as:

> "a watercourse having a source and terminus, banks, and channel, through which waters flow, at least periodically. Streams usually empty into other streams, lakes, or the ocean, but a stream does not lose its character as a watercourse even though it may break up and disappear" (CDFG 1994).

Features which define a stream are present within the area described as riparian/disturbed. There is a defined channel with a bed and banks along the project boundaries.

The survey of Cypress Channel showed a natural bed and discernable banks present in this drainage. The channel exhibits characteristics of a watercourse that supports regular water flow. Although this regular water flow is being supplied throughout the dry season by nuisance irrigation runoff and would under natural conditions have little or no water present. The courts have stated that a watercourse may be "dry except in winter and spring and very [possibly] at intervals even in those seasons" (CDFG 1994). Some hydrophytic vegetation, in the form of arroyo willow, black willow, smartweed, and cattail, is present within portions of the channel. The area subject to the jurisdiction of the CDFG is shown in Figure 5-1.

Appropriate permitting for future projects will be determined as a result of the jurisdictional delineation defined in this report.

6.0 REFERENCES

California Department of Fish and Game, Environmental Services Division. *A Field Guide to Lake and Streambed Alteration Agreements, Sections 1600-1607, California Fish and Game Code*. California Department of Fish and Game, Environmental Services Division, 1416 Ninth Street, Sacramento, CA 95814. 1994.

Department of the Army. *Corps of Engineers Field Guide for Wetlands Delineation*. National Technical Information Service, Washington, D.C. 1987.

Forbey, Randy. Personal Communication. County of San Bernardino Flood Control. (909) 387-8227. August 2001.

Hickman, J.C. (ed.) *The Jepson Manual*. Berkeley: University of California Press, 1993.

Holland, R. F. *Preliminary Descriptions of the Terrestrial Natural Communities of California*. Sacramento: California Department of Fish and Game. 1986.

Reed, P.B., Jr. "National List of Plant Species That Occur in Wetlands: California (Region 0)." *U.S. Fish and Wildlife Service Biol. Rep.* 88 (1988).

State of California. Department of Conservation, Division of Mines and Geology. Geology Map of the San Bernardino Quadrangle. 1986.

State of California. Department of General Services, Real Estate Services Division, Asset Planning and Management Branch. *Strategic Master Land Use Plan and Implementation Approach CIM Chino*. Volume I. 2000.

State of California. Department of General Services, Real Estate Services Division. *Land Use Analysis CIM Site, Chino, California*. 1997.

U.S. Department of the Interior. National Wetlands Inventory. Zip Code Search (91710) http://ecos.fws.gov/nwi_mapplet/summap.html, California.

U.S. Geological Survey. Ontario, California 7.5 minute series topographic quadrangle. 1966 (photo revised 1981).

U.S. Geological Survey. Prado Dam, California 7.5 minute series topographic quadrangle. 1966 (photo revised 1981).

Based on the review of information and the delineation efforts in the field, the following report has been prepared to describe the baseline environmental conditions along Cypress Channel and to delineate the extent of areas potentially subject to the jurisdiction of the U.S. Army Corps of Engineer and the California Department of Fish and Game.

Jurisdictional Area to be Affected as a Result of the Proposed Work

There are no wetlands associated with Cypress Channel. There are approximately 5.06 acres of "waters of the United States" on the (stream name and location). Approximately 5.06 acres of the delineated portion of Cypress Channel (CNDDB) may be subject to the jurisdiction of the California Department of Fish and Game Pursuant to Section 1600 of the State Fish and Game Code.

Endangered Species

A query of the California Department of Fish and Game Natural Diversity Data Base (CNDDB) for the USGS 7.5 minute series Prado Dam topographic quadrangle and surrounding quadrangles, identified two plant and four wildlife species which are listed or candidate species with the potential to occur adjacent to or within the study area. As a result of directed surveys performed by Sapphos Environmental, Inc. staff it was determined that no listed or candidate species are present within the study area.

The CNDDB also identified five plant and seven wildlife species which are classified as sensitive with the potential to occur adjacent to or within the study area. As a result of directed surveys conducted by Sapphos Environmental, Inc. staff no sensitive plant species were identified and two sensitive wildlife species were identified within the study area.

There are eight pairs of nesting burrowing owls (Athene cunicularia) and one golden eagle (Aquila chrysaetos) present within the study area. Burrowing owls prefer dry, open, treeless shortgrass plains, often in areas with little or no vegetation, which are often associated with burrowing mammals and rodents (Small 1994). There is appropriate habitat associated with burrowing mammals and rodents along the banks of the unlined portion of the channel which could provide habitat for the burrowing owl. The nearest occurrence of the burrowing owl is approximately 3,900 linear feet from the unlined portion of the channel.

Although one golden eagle was observed foraging above a nearby agricultural field, there is no suitable habitat for nesting in or adjacent to the area delineated. Existing conditions do not support habitat for the above listed species and they are not expected to occur along the delineated portion of the channel.

Historic Properties

A Cultural Resource Investigation was prepared for the northern parcel by Greenwood and Associates (2001). No current cultural resource investigation has been prepared for the southern parcel or for the natural bottom portion of Cypress Channel. The Greenwood investigation states that the area around Cypress Channel in the northern parcel has potential for prehistoric and historical resources. The investigation also states that any excavation around the channel should be monitored by a professional archaeologist qualified to recognize and evaluate both prehistoric and historical materials. It is recommended that a cultural resource investigation be conducted in the southern parcel before any work is done around the southern portion of Cypress Channel.